

FORM PTO-1390
(REV. 9-2001)

U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE

ATTORNEY'S DOCKET NUMBER
HBC 240-KFMTRANSMITTAL LETTER TO THE UNITED STATES
DESIGNATED/ELECTED OFFICE (DO/EO/US)
CONCERNING A FILING UNDER 35 U.S.C. 371

U.S. APPLICATION NO. (If known, see 37 CFR 1.5)

09/980190

INTERNATIONAL APPLICATION NO.
PCT/DE00/01532INTERNATIONAL FILING DATE
11/MAY/2000PRIORITY DATE CLAIMED
2/JUNE/1999

TITLE OF INVENTION

PRACTICE AMMUNITION

APPLICANT(S) FOR DO/EO/US
HAESLICH, TED

Applicant herewith submits to the United States Designated/Elected Office (DO/EO/US) the following items and other information:

1. ☒ This is a **FIRST** submission of items concerning a filing under 35 U.S.C. 371.
2. ☐ This is a **SECOND** or **SUBSEQUENT** submission of items concerning a filing under 35 U.S.C. 371.
3. ☒ This is an express request to begin national examination procedures (35 U.S.C. 371(f)). The submission must include items (5), (6), (9) and (21) indicated below.
4. ☒ The US has been elected by the expiration of 19 months from the priority date (Article 31).
5. ☒ A copy of the International Application as filed (35 U.S.C. 371(c)(2))
 - a. ☒ is attached hereto (required only if not communicated by the International Bureau).
 - b. ☐ has been communicated by the International Bureau.
 - c. ☐ is not required, as the application was filed in the United States Receiving Office (RO/US).
6. ☒ An English language translation of the International Application as filed (35 U.S.C. 371(c)(2)).
 - a. ☒ is attached hereto.
 - b. ☐ has been previously submitted under 35 U.S.C. 154(d)(4).
7. ☒ Amendments to the claims of the International Application under PCT Article 19 (35 U.S.C. 371(c)(3))
 - a. ☒ are attached hereto (required only if not communicated by the International Bureau).
 - b. ☐ have been communicated by the International Bureau.
 - c. ☐ have not been made; however, the time limit for making such amendments has NOT expired.
 - d. ☐ have not been made and will not be made.
8. ☒ An English language translation of the amendments to the claims under PCT Article 19 (35 U.S.C. 371 (c)(3)).
9. ☐ An oath or declaration of the inventor(s) (35 U.S.C. 371(c)(4)).
10. ☐ An English language translation of the annexes of the International Preliminary Examination Report under PCT Article 36 (35 U.S.C. 371(c)(5)).

Items 11 to 20 below concern document(s) or information included:

11. ☐ An Information Disclosure Statement under 37 CFR 1.97 and 1.98.
12. ☐ An assignment document for recording. A separate cover sheet in compliance with 37 CFR 3.28 and 3.31 is included.
13. ☒ A **FIRST** preliminary amendment.
14. ☐ A **SECOND** or **SUBSEQUENT** preliminary amendment.
15. ☐ A substitute specification.
16. ☐ A change of power of attorney and/or address letter.
17. ☐ A computer-readable form of the sequence listing in accordance with PCT Rule 13ter.2 and 35 U.S.C. 1.821 - 1.825.
18. ☐ A second copy of the published international application under 35 U.S.C. 154(d)(4).
19. ☐ A second copy of the English language translation of the international application under 35 U.S.C. 154(d)(4).
20. ☒ Other items or information: **INTERNATIONAL PRELIMINARY EXAMINATION REPORT (in German)**

U.S. APPLICATION NO (if known, see 37 CFR 1.5)

INTERNATIONAL APPLICATION NO
PCT/DE00/01532

ATTORNEY'S DOCKET NUMBER
HBC 240-KFM

09/980190

21. ☒ The following fees are submitted:

BASIC NATIONAL FEE (37 CFR 1.492 (a) (1) - (5)):

Neither international preliminary examination fee (37 CFR 1.482)
nor international search fee (37 CFR 1.445(a)(2)) paid to USPTO
and International Search Report not prepared by the EPO or JPO. \$1040.00

International preliminary examination fee (37 CFR 1.482) not paid to
USPTO but International Search Report prepared by the EPO or JPO \$890.00

International preliminary examination fee (37 CFR 1.482) not paid to USPTO
but international search fee (37 CFR 1.445(a)(2)) paid to USPTO \$740.00

International preliminary examination fee (37 CFR 1.482) paid to USPTO
but all claims did not satisfy provisions of PCT Article 33(1)-(4) \$710.00

International preliminary examination fee (37 CFR 1.482) paid to USPTO
and all claims satisfied provisions of PCT Article 33(1)-(4) \$100.00

ENTER APPROPRIATE BASIC FEE AMOUNT =

CALCULATIONS PTO USE ONLY

890.00

\$ 890.00

Surcharge of \$130.00 for furnishing the oath or declaration later than ☐ 20 ☒ 30
months from the earliest claimed priority date (37 CFR 1.492(e)).

\$ 130.00

CLAIMS	NUMBER FILED	NUMBER EXTRA	RATE	\$
Total claims	4 - 20 =	0	x \$18.00	\$
Independent claims	1 - 3 =	0	x \$84.00	\$
MULTIPLE DEPENDENT CLAIM(S) (if applicable)			+ \$280.00	\$

TOTAL OF ABOVE CALCULATIONS = \$1020.00

☐ Applicant claims small entity status. See 37 CFR 1.27. The fees indicated above
are reduced by 1/2.

\$

SUBTOTAL = \$1020.00

Processing fee of \$130.00 for furnishing the English translation later than ☐ 20 ☐ 30
months from the earliest claimed priority date (37 CFR 1.492(f)).

\$

TOTAL NATIONAL FEE = \$1020.00

Fee for recording the enclosed assignment (37 CFR 1.21(h)). The assignment must be
accompanied by an appropriate cover sheet (37 CFR 3.28, 3.31). \$40.00 per property +

\$

TOTAL FEES ENCLOSED = \$1020.00

Amount to be
refunded: \$

charged: \$

- a. ☒ A check in the amount of \$ 1,020.00 to cover the above fees is enclosed.
- b. ☐ Please charge my Deposit Account No. _____ in the amount of \$ _____ to cover the above fees.
A duplicate copy of this sheet is enclosed.
- c. ☒ The Commissioner is hereby authorized to charge any additional fees which may be required, or credit any
overpayment to Deposit Account No. 50-0427. A duplicate copy of this sheet is enclosed.
- d. ☐ Fees are to be charged to a credit card. **WARNING:** Information on this form may become public. **Credit card
information should not be included on this form.** Provide credit card information and authorization on PTO-2038.

NOTE: Where an appropriate time limit under 37 CFR 1.494 or 1.495 has not been met, a petition to revive (37 CFR
1.137 (a) or (b)) must be filed and granted to restore the application to pending status.

SEND ALL CORRESPONDENCE TO.

Express Mail number ET 864 895 516 US

Date of Deposit 11-30-01

MILDE, HOFFBERG & MACKLIN, LLP
10 BANK STREET
SUITE 460
WHITE PLAINS, NEW YORK 10606

I hereby certify that this paper or fee is
being deposited with the United States Postal
Service for delivery by First Class Mail Post Office to
the address above under 37 CFR 1.10 on the
date indicated above and is addressed to the
Commissioner of Patents and Trademarks,
Washington, D.C. 20231.

SIGNATURE

Karl F. Milde, Jr.

NAME

24,822

REGISTRATION NUMBER

By: Juliana Gady

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JC10 Rec'd PCT/PTO 3 0 NOV 2001

HBC 240-KFM

15889ZA US

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant : TED HAESELICH
Serial No. : TO BE ASSIGNED
Filed : HEREWITH
For : PRACTICE AMMUNITION

November 30, 2001

Hon. Commissioner of Patents
& Trademarks
Washington, DC 20231

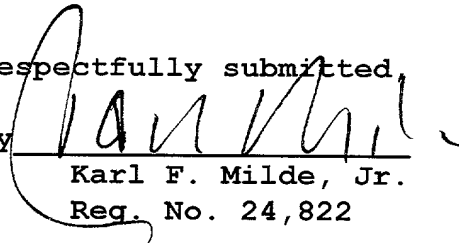
Sir:

STATEMENT UNDER 37 C.F.R. 1.41(c)

The undersigned has been authorized by the above-identified applicant to file the application which is being filed herewith on behalf of the inventor(s). Pursuant to 35 U.S.C. 371 and 37 C.F.R. 1.41(c), the required oath and surcharge will be submitted within two (2) months of the filing date or one (1) month from the date of Notice from the U.S. Patent and Trademark Office that the executed oath is due in the above-identified application, whichever date is later.

Respectfully submitted,

By


Karl F. Milde, Jr.
Reg. No. 24,822

MILDE, HOFFBERG & MACKLIN, LLP
10 Bank Street - Suite 460
White Plains, NY 10606
914-949-3100

206270 05F098660

30 NOV 2001

HBC 240-KFM

15889ZA US

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant : TED HAESELICH
Serial No. : TO BE ASSIGNED
Filed : HEREWITH
For : PRACTICE AMMUNITION

November 30, 2001

Hon. Commissioner of Patents
& Trademarks
Washington, DC 20231

Sir:

PRELIMINARY AMENDMENT

Prior to examination, please amend the above-identified
patent application as follows:

IN THE SPECIFICATION: (AMENDED VERSION)

On page 1, after the title, insert the following
heading:

BACKGROUND OF THE INVENTION

On page 2, after line 11, insert the following heading:

SUMMARY OF THE INVENTION;

and change lines 12-17 to read as follows:

It is a principal object of the present invention to improve
upon a practice ammunition projectile of the type described
above including a chemically reactive marking agent, and to
enable its trajectory to be observed, if desired.

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This object, as well as further objects which will become apparent from the discussion that follows, are achieved, in accordance with the present invention, by providing compartments for the chemical components, which are adapted to be broken up by the initial acceleration forces and/or the centrifugal forces applied to the projectile when it is fired, and by providing a hood, surrounding the compartments, which is formed of optically transparent material to enable the trajectory of the practice projectile to be tracked.

On page 4, change lines 1-3 to read as follows:

For a full understanding of the present invention, reference should now be made to the following detailed description of the preferred embodiments of the invention as illustrated in the accompanying drawings.

BRIEF DESCRIPTION OF THE DRAWINGS;

and after line 9, insert the following heading and paragraph:

DESCRIPTION OF THE PREFERRED EMBODIMENTS

The preferred embodiments of the present invention will now be described with reference to Figs. 1 and 2 of the

drawings. Identical elements in the various figures are designated with the same reference numerals.

On page 5, after the last line, insert the following paragraph:

There has thus been shown and described a novel practice ammunition projectile which fulfills all the objects and advantages sought therefor. Many changes, modifications, variations and other uses and applications of the subject invention will, however, become apparent to those skilled in the art after considering this specification and the accompanying drawings which disclose the preferred embodiments thereof. All such changes, modifications, variations and other uses and applications which do not depart from the spirit and scope of the invention are deemed to be covered by the invention, which is to be limited only by the claims which follow.

IN THE CLAIMS:

In line 1, delete "NEW PATENT CLAIMS" and insert:

C L A I M S

What is claimed is:

Please cancel claims 1-7 in their entirety and insert the following new claims:

8. In a practice ammunition projectile comprising a head designed to burst when the projectile strikes a target and to receive a marking agent optically indicating the impact after the head has burst, said marking agent contained in a burstable hood at the head of the practice projectile and comprising a plurality of chemical components each received in a separate frangible compartment, said components being mixed and reacting chemically with each other as the compartments break up, causing the optical marking reaction to be produced, the improvement wherein the compartments are adapted to be broken up by at least one of the initial acceleration and the centrifugal forces on the projectile when in use, and wherein the hood is formed of an optically transparent material to enable the trajectory of practice projectile to be tracked.

9. Practice ammunition projectile as in claim 8, wherein the optical marking is visible in the infrared range.

10. Practice ammunition projectile as in claim 8, wherein the optical marking emits light in the visible and infrared ranges.

11. Practice ammunition projectile as in claim 8, wherein the compartments are separated by partitions, said partitions having predetermined breaking points therein.

IN THE ABSTRACT:

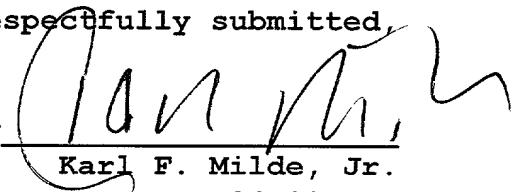
Please add the following ABSTRACT OF THE DISCLOSURE on the attached sheet.

R E M A R K S

This Preliminary Amendment is being filed to place the specification and claims in proper form under United States Patent Practice also to add an Abstract. No new matter has been introduced.

Respectfully submitted,

By


Karl F. Milde, Jr.
Reg. No. 24,822

MILDE, HOFFBERG & MACKLIN, LLP
10 Bank Street - Suite 460
White Plains, NY 10606
914-949-3100

ABSTRACT OF THE DISCLOSURE

A practice ammunition projectile comprises a head which bursts when the projectile strikes a target and contains a marking agent which optically indicates the point of impact after the head has burst. The marking agent consists of several chemical components (7, 8, 11, 12) which are each contained in separately breakable compartments (4, 5, 10, 12) within a burstable hood at the head of the projectile. When said compartments (4, 5, 10, 12) break open the components combine and undergo a chemical reaction which creates an optical mark. The hood is formed of an optically transparent material to enable the trajectory of the projectile to be tracked.

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VERSION TO SHOW MARKINGS OF CHANGES MADE

JC10 Rec'd PCT/PTO

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IN THE SPECIFICATION:

On page 1, after the title, insert the following heading:

-- BACKGROUND OF THE INVENTION --

On page 2, after line 11, insert the following heading:

-- SUMMARY OF THE INVENTION;

and change lines 12-17 to read as follows:

-- It is a principal object of the present invention to improve upon a practice ammunition projectile of the type described above including a chemically reactive marking agent, and to enable its trajectory to be observed, if desired.

This object, as well as further objects which will become apparent from the discussion that follows, are achieved, in accordance with the present invention, by providing compartment, which are adapted to broken up by the initial acceleration forces and/or the centrifugal forces applied to the projectile when it is fired, and providing a hood, surrounding the compartments, which is formed of optically transparent material to enable the trajectory of the practice projectile to be tracked. --

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On page 4, change lines 1-3 to read as follows:

-- For a full understanding of the present invention, reference should now be made to the following detailed description of the preferred embodiments of the invention as illustrated in the accompanying drawings.

BRIEF DESCRIPTION OF THE DRAWINGS --;

and after line 9, insert the following heading and paragraph:

-- DESCRIPTION OF THE PREFERRED EMBODIMENTS

The preferred embodiments of the present invention will now be described with reference to Figs. 1 and 2 of the drawings. Identical elements in the various figures are designated with the same reference numerals. --

On page 5, after the last line, insert the following paragraph:

-- There has thus been shown and described a novel practice ammunition projectile which fulfills all the objects and advantages sought therefor. Many changes, modifications, variations and other uses and applications of the subject invention will, however, become apparent to those skilled in the art after considering this specification and the accompanying drawings which disclose the preferred

embodiments thereof. All such changes, modifications, variations and other uses and applications which do not depart from the spirit and scope of the invention are deemed to be covered by the invention, which is to be limited only by the claims which follow. --

IN THE CLAIMS:

In line 1, delete "NEW PATENT CLAIMS" and insert:

-- C L A I M S

What is claimed is: --

Please cancel claims 1-7 in their entirety and insert the following new claims:

8. In a practice ammunition projectile comprising a head designed to burst when the projectile strikes a target and to receive a marking agent optically indicating the impact after the head has burst, said marking agent contained in a burstable hood at the head of the practice projectile and comprising a plurality of chemical components each received in a separate frangible compartment, said components being mixed and reacting chemically with each other as the compartments break up, causing the optical marking reaction to be produced, the improvement wherein the compartments are adapted to be broken up by at least one of the initial

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acceleration and the centrifugal forces on the projectile when in use, and wherein the hood is formed of an optically transparent material to enable the trajectory of practice projectile to be tracked.

9. Practice ammunition projectile as in claim 8, wherein the optical marking is visible in the infrared range.

10. Practice ammunition projectile as in claim 8, wherein the optical marking emits light in the visible and infrared ranges.

11. Practice ammunition projectile as in claim 8, wherein the compartments are separated by partitions, said partitions having predetermined breaking points therein.

IN THE ABSTRACT:

Please add the following ABSTRACT OF THE DISCLOSURE on the attached sheet.

Art: 34

11PATS

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PCT/DE00/01532
Amended Version
for National Phase

PRACTICE AMMUNITION

The invention relates to practice ammunition including a marking agent.

In the use of practice ammunition of this kind - such as practice shells and practice bombs - it is important to mark the impact site so as to obtain optimum practice results. To this end, the practice ammunition comprises a head with a chamber containing a marking agent, preferably a powder with a reddish color. The head is made of a material which when striking a target will burst and release the colored powder. The powder is scattered within some radius about the impact site, thus marking the latter optically. However, the colored powder is visible only under conditions of sufficient brightness; under low light or at night it will not be visible unless powerful night viewing equipment is used.

The U.S. Patent No. 5,018,450 discloses a practice projectile in which the marking agent is contained in a burstable hood at the head of the practice projectile. The marking agent has chemical components contained in separate frangible compartments which are mixed and react chemically as the compartments burst when the practice projectile strikes its target, this chemical reaction causing the optical marking to be produced. A practice projectile of this kind will make its impact visible at night as well.

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Art. 34

The German Patent Publication No. DE-AS 11 99 660 discloses a practice projectile to be fired from a barrel-type weapon and also having a marking agent comprising chemical components contained in a plurality of separate frangible compartments. In this projectile, these compartments are designed to burst when the projectile leaves the muzzle. This will cause the practice projectile to come apart and to eject from the muzzle of the barrel a mushroom-shaped cloud of smoke visible from a great distance. The firing of live ammunition will thus be simulated in a more realistic manner.

It is the object underlying the invention to improve on practice ammunition of the type described above including a chemically reactive marking agent and to enable its trajectory to be observed, if desired. In accordance with the invention, this object is attained by the features set forth in patent claim 1.

In accordance with the invention, the compartments containing the chemical components are broken up as early as in the initial and/or the twist acceleration phases. The compartments are individually contained in a hood made of an optically transparent material and located at the head of the practice projectile. On impact, the hood will burst and release the marking agent to identify the impact site. At the same time, the optically transparent hood enables the marking - such as the chemoluminescent effect of the chemically reacting components - to be perceived along the entire trajectory of the practice projectile. The chemical

components are selected to produce a sustained luminous effect lasting for an extended period of time, enabling the practice projectile to be optically tracked along its entire trajectory, and additionally to mark the impact site.

The duration of the chemical reaction, as well as the frequency and the brightness of the emitted light, may be adjusted within broad ranges by properly selecting the chemically reactive components. The reaction preferably produces sustained luminous effects so that the trajectory of the practice ammunition may be optically tracked, and so that the impact site will be marked.

The present invention preferably uses starting materials which, when chemically reacted, emit light in the visible or infrared ranges. If emitted in the infrared range, the marking light may be observed with night viewing equipment.

Swiss Patent No. CH 381 565 discloses a practice projectile comprising a transparent hood at the head thereof which will burst on impact, such hood containing a marking material such as a colored powder. However, this optically transparent hood is intended only to recognize the color of the powder so as to distinguish various types of projectiles, such as practice projectile and live ammunition. It is not possible with like designs to track the trajectory of the projectile.

Art. 34

The invention is illustrated and explained in greater detail in the following description of an exemplary embodiment thereof, having reference to the drawing.

Fig. 1 shows a longitudinal section through practice ammunition in the form of a practice cartridge comprising an inventive practice projectile and a case receiving the latter;

Fig. 2 shows a longitudinal section through a practice projectile according to another embodiment of the invention.

Fig. 1 shows a practice projectile 1 received in a cartridge case 2. The head of practice projectile 1 has a hood 3 consisting of a transparent material - such as a plastic material - and covering a first compartment 4 and a second compartment 5. The two compartments are arranged one on top of the other and are separated from each other by a partition 6 therebetween. The first compartment is filled with a first chemical component 7 such as an oxidant and the second compartment is filled with a second chemical component 8 such as a reducing agent.

When the partition is broken up by the force of the acceleration generated during firing, for example, the chemical reaction of the two chemical components causes chemoluminescent light to be emitted which is visible through the transparent hood while the projectile is flying.

On striking the target, the hood bursts, causing the end products of the reaction to be scattered in the vicinity of

Art. 5!
the impact site, whereby the emitted light marks that site optically and is visible from great distances.

Fig. 2 shows an inventive practice projectile 1 in which the head and its transparent hood 3 are designed to include a first compartment 4 holding a first chemical component 7 and a second compartment 5 holding a second chemical component 8, said compartments placed in a side-by-side longitudinal relationship. The compartments are separated longitudinally by a partition 6, which is designed to be broken up by the centrifugal force produced by the twist of a twist-stabilised practice projectile, for example, to enable the chemical reaction to take place which constitutes the marking means. In both cases, the partitions may be provided with predetermined breaking points (not shown).

Art. 51

NEW PATENT CLAIMS

1. Practice ammunition comprising a head designed to burst when the practice cartridge strikes a target and to receive a marking agent optically indicating the impact after the head has burst, said marking agent contained in a burstable hood (3) at the head of the practice projectile and comprising a plurality of chemical components each received in a separate frangible compartment, said components being mixed and reacting chemically with each other as the compartments break up, causing the optical marking reaction to be produced, characterized in that compartments (4, 5) are adapted to be broken up by the initial acceleration and/or by centrifugal forces if a twist-stabilised practice projectile (1) is used, and in that hood (3) consists of an optically transparent material to enable the trajectory of practice ammunition (1) to be tracked.

2. Practice ammunition as in claim 1, characterized in that the optical marking is visible in the infrared range.

3. Practice ammunition as in claim 1, characterized in that the optical marking emits light in the visible and infrared ranges.

4. Practice ammunition as in any one of the preceding claims, characterized in that compartments (4, 5) are separated by partitions, said partitions having predetermined breaking points therein.

5. Practice ammunition as in any one of the preceding claims, characterized in that the optical marking radiates light in the visible range.

6. Practice ammunition as in any one of the preceding claims, characterized in that practice ammunition (1) comprises a burstable hood (3) for covering compartments (4, 5).

7. Practice ammunition as in claim 6, characterized by hood (3) consisting of an optically transparent material.

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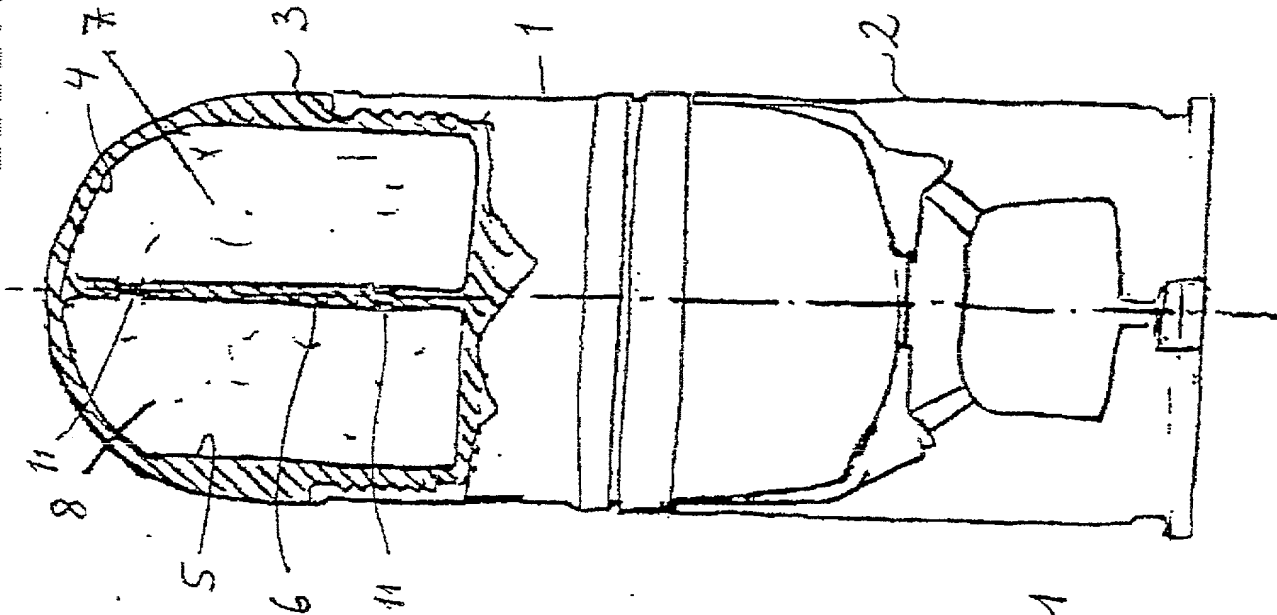


Fig. 1

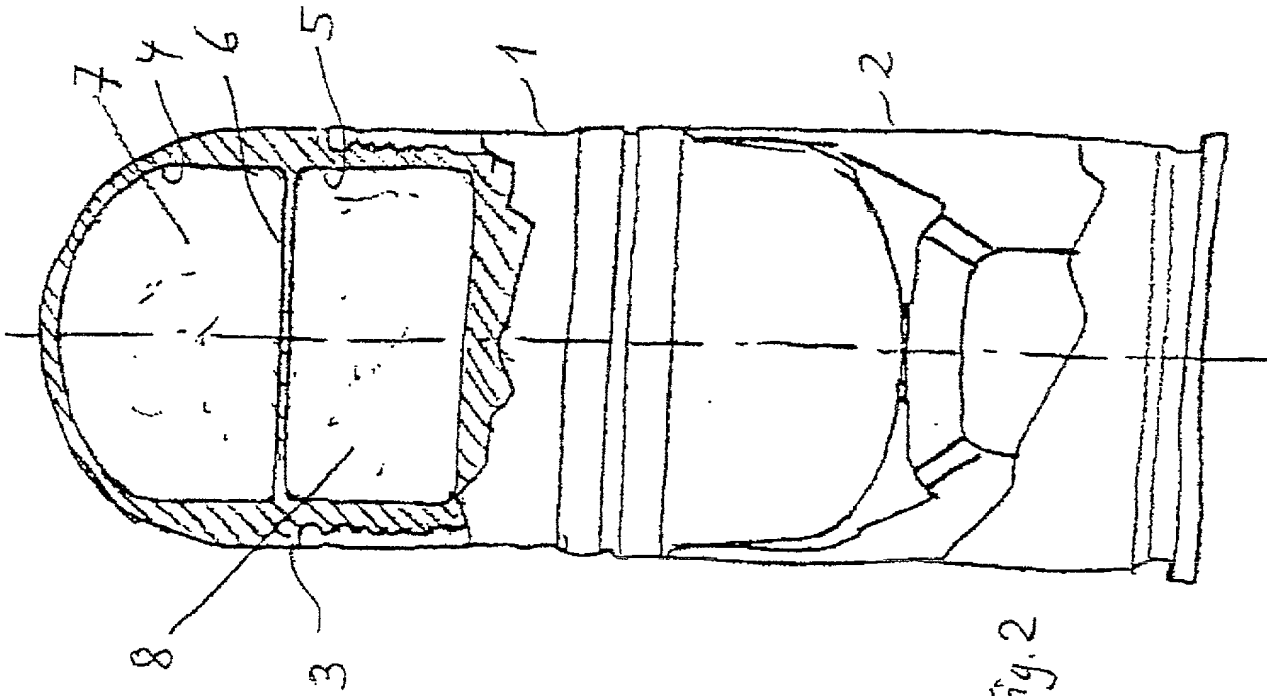


Fig. 2

**DECLARATION AND POWER OF ATTORNEY
FOR PATENT APPLICATION**

HBC 240-KFM

15889 ZA

As the below named inventors, I/We hereby declare that:

My/Our residence, post office address and citizenship is as stated below next to my/our name.

If one name appears below, I am the sole inventor of the subject matter sought to be patented.

If two or more names appear below, we are joint inventors of the subject matter sought to be patented

I/We believe I/We am/are the original; and first inventor(s) of the subject matter which is claimed and for which a patent is sought on the invention entitled

PRACTICE AMMUNITION

the specification of which

☐ is attached hereto.

☒ was filed on 11/30/01 as application Serial No. 09/980, 190.

I/We hereby state that I/We reviewed and understand the contents of the above-identified specification, including the claims, as amended by any amendment referred to above.

I/We acknowledge the duty to disclose information which is material to the examination of this application in accordance with Title 37, Code of Federal Regulations, Section 1.56(a).

I/We also acknowledge the duty to disclose information which is material to the examination of this application in accordance with Title 37, Code of Federal Regulations, Section 1.63(d), which occurred between the filing date of the prior application and the filing date of the continuation-in-part application, if this is a continuation-in-part application.

I/We hereby claim foreign priority benefits under Title 35, United States Code, Section 119 of any foreign application(s) for the patent or inventor's certificate listed below and have also identified below any foreign application for patent or inventor's certificate having a filing date before that of the application on which priority is claimed:

Prior Foreign Application: GERMAN Application No. 199 25 404.4
filed June 2, 1999

Priority Claimed: X Yes No

205210 05108550

Prior Foreign Application: PCT Application No. PCT/DE00/01532
filed May 11, 2000

Priority Claimed: X Yes No

I/We hereby claim the benefit under Title 35, United States Code, Section 120 of any United States application(s) listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States application in the manner provided by the first paragraph of Title 35, United States Code, Section 112, I acknowledge the duty to disclose material information as defined in Title 37, Code of Federal Regulations, Section 1.56(a) which occurred between the filing date of the prior application and the national or PCT international filing date of this application:

<u>Application Serial No.</u>	<u>Filing Date</u>	<u>Status</u> (patented, pending, abandoned)
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<u>Application Serial No.</u>	<u>Filing Date</u>	<u>Status</u> (patented, pending, abandoned)
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I/We hereby declare that all statements made herein of my/our own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

I/We hereby appoint the following attorneys and/or agents to represent me/us with respect to the above identified U.S. Patent Application, and to prosecute any continuations, continuations-in-part, reissue applications and/or reexaminations with respect to these applications and to transact all business in the Patent and Trademark Office connected therewith, and hereby expressly revoke all prior powers, whatever they may be, heretofore had herein:

✓ Karl F. Milde, Jr., Reg. No. 24,822 and Steven M. Hoffberg, Reg. No. 33,511, both of 10 Bank Street, Suite 460, White Plains, New York 10606, my/our attorneys with full power of substitution and revocation.

Please address all telephone calls to Karl F. Milde, Jr., Esq. at telephone No. (914) 949-3100.

Please address all correspondence to:

Karl F. Milde, Jr., Esq.
MILDE, HOFFBERG & MACKLIN, L.L.P.
10 Bank Street - Suite 460
White Plains, New York 10606

100
TED HAESELICH
NAME OF INVENTOR


INVENTOR'S SIGNATURE

21.01.2002
DATE

Muehlenstrasse 9, D-21516 Muessen, GERMANY DEX
RESIDENCE

GERMAN
CITIZENSHIP

SAME AS ABOVE
POST OFFICE ADDRESS